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BT—01—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (SE) (First Year) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS PATTERN)

SOFTWARE ENGINEERING

(Programming with C++)

(Wednesday, 16-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) *All questions are compulsory.*

(ii) *Write answers in brief and to the point.*

(iii) *Assume suitable data if necessary.*

1. Attempt any *three* of the following : 15

(a) Function prototype

(b) Memory allocation for objects

(c) Basic concepts of OOP's

(d) Console I/O operations

(e) WAP for scope resolution operator.

2. Attempt any *three* of the following : 15

(a) Structure of C++ program.

(b) Write returning object with example.

(c) Explain friend function with example.

(d) Write program for unary (–) operator overloading.

P.T.O.

3. Solve the following (any *three*) : 15
- (a) Write benefits of OOP.
 - (b) Write parameterised constructor with example.
 - (c) What is overloading ? Explain function overloading with example.
 - (d) Write program for array within class.
4. Answer the following (any *three*) : 15
- (a) Write hybride inheritance with example.
 - (b) Write function template.
 - (c) Write creating string object.
 - (d) WAP for return by reference.
5. Write short notes on any *three* : 15
- (a) STL
 - (b) Destructor
 - (c) Rules for virtual functions
 - (d) Through and catch mechanism
 - (e) Inline function.